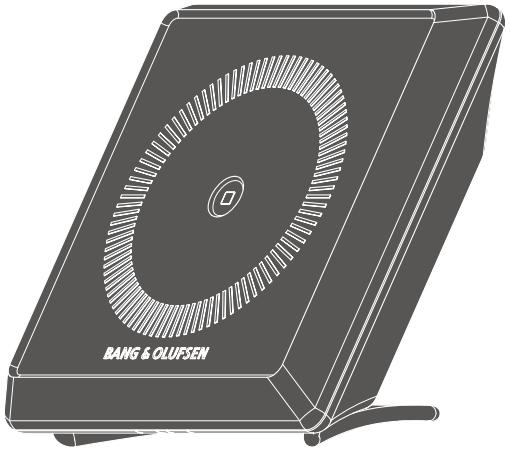
Playmaker

Installation Guide for installation and setup of Playmaker
Version 1.0



BANG & OLUFSEN

Introduction

General

Playmaker is a digital music player which can stream and play audio from a handheld device through connected, active speakers. It supports Airplay / DLNA devices and analogue sources connected to the line-in sockets. Playmaker must be set up in either a wired or a wireless (2.4 GHz) network to be able to play music from a handheld device.

This guide contains information about how to install and set up the Playmaker. The intention is to make this process as effortless and easy as possible. The guide is an interactive document and would therefore be most useful when it is displayed on a laptop, or the like.

How to navigate this guide

When the guide is opened, it automatically opens in Full Screen Mode (can be left as desired - see below). This is primarily done to optimise the usability of screen reading. There are several ways to navigate when using the guide, see the survey of keys, icons and hot keys below:

Navigates to the next page

Navigates to the previous page

Navigates you to the previous view

Navigates you directly to the start page

Navigates directly to the table of contents (these are active links - click the link to be directed directly to the associated section)

Prints the document - the print dialogue box opens (**Ctrl + P** also brings up this feature)

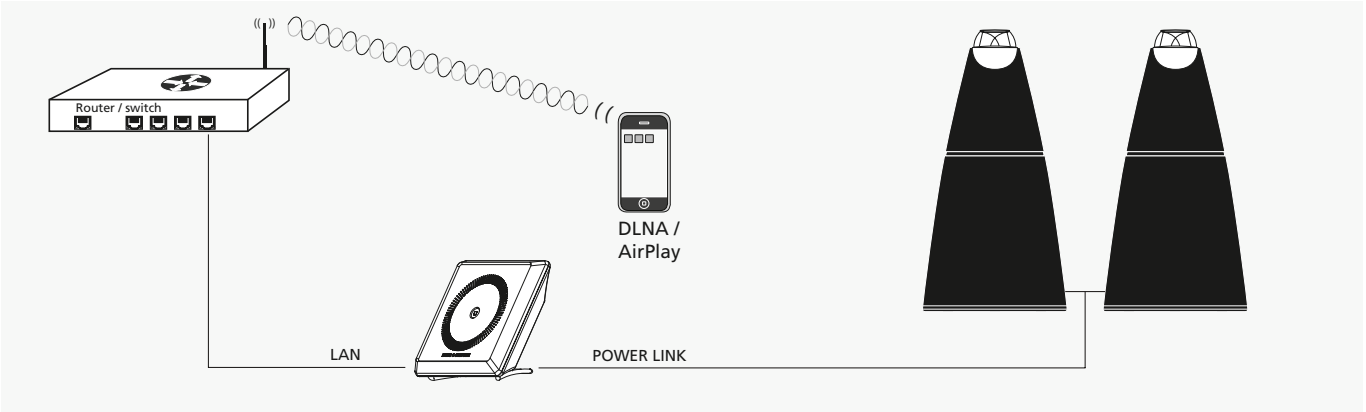
Exit Full Screen Mode (x2 **Esc** button in web browsers). Press **CTRL + L** to return to Full Screen Mode.

Furthermore to ease the navigation, this guide contains links. The links are mouse over active and marked with blue text. Just click on a page reference to be transferred to that page.

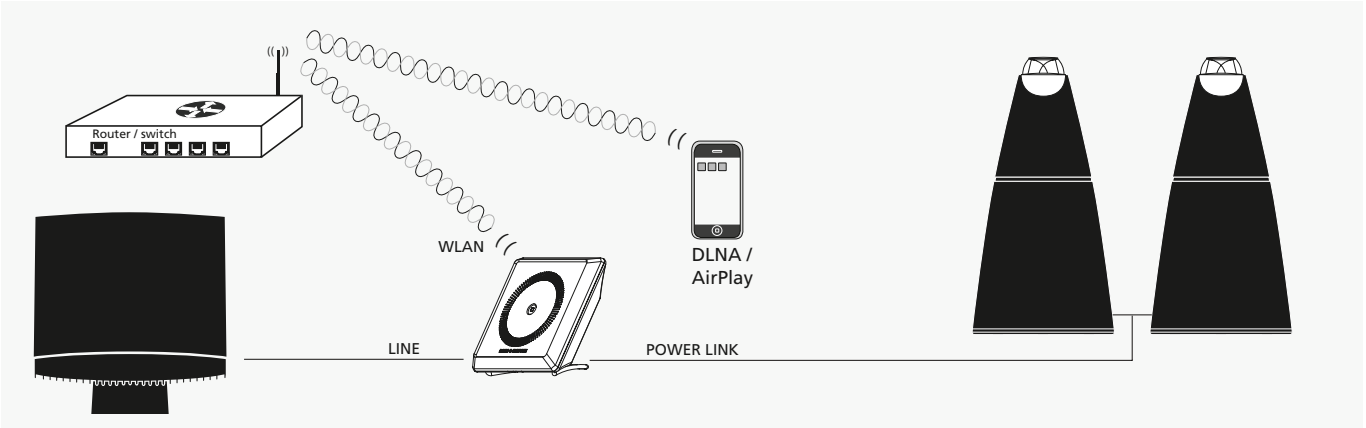
Installation overview

Basically the Playmaker supports two types of network connections - **LAN** (Local Area Connection) and **WLAN** (Wireless Local Area Connection). External audio sources is connected to the LINE IN phono sockets. The connection types are illustrated in two examples below:

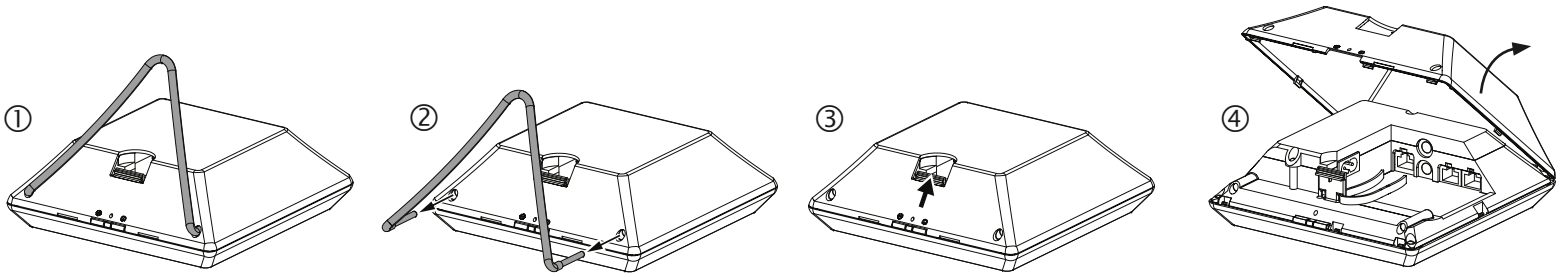
Playmaker in a LAN setup (wired)



Playmaker in a WLAN setup (wireless) / LINE IN



Connecting Playmaker



> Follow the illustrations above to get access to the connectors

Playmaker in a LAN setup

> Run cables through the hole in the back cover
> Connect the Power Link cables to the SPEAKERS sockets
> Connect the Ethernet cable to the Ethernet socket (RJ45)
> Connect external audio sources to the LINE IN socket (optional)
> Connect the mains cable to the Mains supply socket

! Do not connect the cable to the mains yet

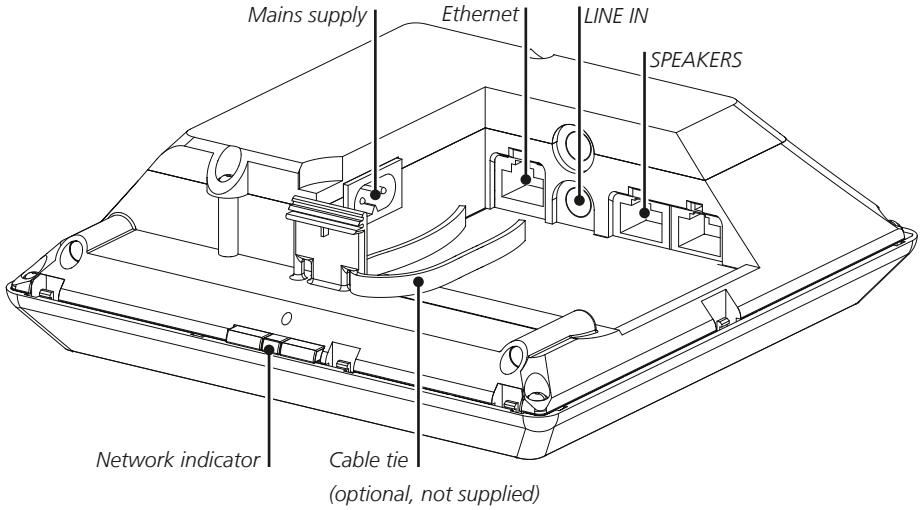
> Secure the cables to a cable tie if desired and reassemble the Playmaker*

Playmaker in a WLAN setup

> Run cables through the hole in the back cover
> Connect the Power Link cables to the SPEAKERS sockets
> Connect external audio sources to the LINE IN socket (optional)
> Connect the mains cable to the mains supply socket

! Do not connect the cable to the mains yet

> Secure the cables with a cable tie if desired and reassemble the Playmaker*



* *Skip this step if a static IP address is needed (network configuration with disabled DHCP) because of other, temporary cable connections.*

Setting up Playmaker

Important

Before continuing with setting up Playmaker there are some important precautions to understand. Please read and comply with the following precautions during the installation:

- It is strongly recommended not to connect more than 4 Playmakers to the same network.
- Avoid placing the product in direct sunlight or direct artificial light, such as a spotlight, as this may impair the IR reception.
- Make sure that the product is set up, placed and connected in accordance with the instructions.
- Place the product on a firm surface and leave enough space around the product for adequate ventilation.
- Do not subject the product to high humidity, rain or sources of heat.
- The product is intended for indoor use in dry, domestic environments only. Use within a temperature range of 10–40°C (50–105°F).
- If the product has been exposed to temperatures below 5°C (40°F), leave it at room temperature and wait until the product has regained normal room temperature before it is connected to the mains and switched on.
- Do not attempt to open other parts of the product than the back cover. Leave such operations to qualified service personnel.

Elements

Playmaker is now ready to be set up and connected to the network. The main elements are:

> Connecting Playmaker to the network
> Check for software updates
> Setting Option on Playmaker

Choose setup method

Basically, there are two types of methods for setting up Playmaker. Continue by choosing the desired device for the setup:

iOS
(mobile iOS device)

PC / Mac
(any other device)

iOS device

For iOS devices, use the Bang & Olufsen app **BeoSetup** to change the product name, update the software and check/set up the network connection. The iOS device must be on the same network as the Playmaker!

> Download and install the BeoSetup app from App Store (click or scan the QR code to be linked directly there).

LAN setup

> Connect the mains cable from the product to the mains supply and wait for the product to connect to the network (approximately one minute - the network indicator becomes solid white).

> Start the app **BeoSetup**. The application will now locate and show a list of Bang & Olufsens products connected to the network.

> *Select the product - the product name is shown as Playmaker_xxxxxxxx ('x' = serial number).*

If the product list is empty, it means that the Playmaker was not assigned an IP address (the network indicator flashes orange). In this case continue to Static IP address.

Now the setup page for the product is shown (illustrated to the right):

Manual configuration

Static IP address (DHCP disabled) ...

If the router is configured with DHCP disabled, the Playmaker must be set up with a static IP address.

> Choose **SHOW ADVANCED SETTINGS** to open the section for manual IP settings (illustrated to the right).

> Remove the checkmark for **Use DHCP** (the fields for manual IP settings becomes active).

> Fill in the fields for IP settings (marked with *) according to the router configuration.

> If a proxy server is needed, checkmark **Use proxy server** and fill in the fields *.

> Press the **APPLY CHANGES** button to save settings.

WLAN setup

See next page.

WLAN setup - Auto

> Connect the mains cable from the product to the mains supply.
> Press the ***Easy wireless setup*** button on the Playmaker.
> Press the ***WPS*** button on the router or activate the function from the routers web interface .

The network indicator flashes green while searching the network. When Playmaker and the router are connected, the network indicator becomes solid white.

WLAN setup

> Connect the mains cable from Playmaker to the mains supply and wait approximately two minutes for the product to generate an access point. The network indicator flashes orange when ready.
> Connect the iOS device to the new access point **Playmaker_AP.**
> Start the app **BeoSetup**. The application will now locate and show a list of Bang & Olufsens products connected to the network.
> Select the product - the product name is shown as *Playmaker_xxxxxxxx* ('x' = serial number).

Now the setup page for the product is shown (illustrated to the right):

> Click on the drop-down list for Network name (SSID) and choose the desired network. If necessary, press the **Refresh list...** to perform a new network scan.
> Press the **Password** area to enter the passphrase for the wireless network.
> Press the **APPLY CHANGES** button to save settings.

Manual configuration

Static IP address (DHCP disabled) ...

If the router is configured with DHCP disabled, the Playmaker must be set up with a static IP address.

> Choose **SHOW ADVANCED SETTINGS** to open the section for manual IP settings (illustrated to the right).
> Remove the checkmark for **Use DHCP** (the fields for manual IP settings becomes active).
> Fill in the fields for IP settings (marked with *) according to the router configuration.
> If a proxy server is needed, checkmark **Use proxy server** and fill in the required fields *.
> Press the **APPLY CHANGES** button to save settings.

Other device

LAN setup

> Connect the mains cable from the product to the mains supply and wait for the product to connect to the network (the network indicator becomes solid white when connected).

*If the network indicator changes from flashing white to flashing orange (after approximately two minutes), it means that the Playmaker was not assigned an IP address. In this case go to **Static IP address** below.*

> Start up and connect a computer to the same network as Playmaker. Choose a system:

Windows XP ...

> Right-click on **Start** and choose **Explore** -> choose **My Network Places** (in **Folders** section) and double-click on ***Playmaker_xxxxxxxx*** ('x' = serial number).

Now the setup page for the product is shown (illustrated to the right):

Manual configuration

Static IP address (DHCP disabled) ...

If the router is configured with DHCP disabled, the Playmaker must be set up with a static IP address.

> Disable the wireless network on the computer and connect directly to Playmaker, using an Ethernet cable.
> Connect the mains cable from Playmaker to the mains supply and switch on the product. The network indicator flashes white for about 60 seconds and then becomes solid white.
> Enter the IP address '**http://169.254.11.22**' in the address bar of an internet browser, and press enter.
The setup page with network settings appears. If not, wait a while and refresh the page.
> Choose **SHOW ADVANCED SETTINGS** to open the section for manual IP settings (illustrated to the right).
> Remove the checkmark for **Use DHCP** (the fields for manual IP settings becomes active).
> Fill in the fields for IP settings (marked with *****) according to the router configuration.
> If a proxy server is needed, checkmark **Use proxy server** and fill in the fields *****.
> Press the **APPLY CHANGES** button to save settings.
> Disconnect Playmaker from the PC and connect it to the network. Playmaker is connected when the network indicator becomes solid white.

WLAN setup

See next page.

WLAN setup - Auto

> Connect the mains cable from the product to the mains supply.
> Press the *Easy wireless setup* button on the Playmaker.
> Press the *WPS* button on the router or activate the function from the routers web interface .
The network indicator flashes green while searching the network. When Playmaker and the router are connected, the network indicator becomes solid white.

WLAN setup

> Disable the wireless network on the computer and connect the computer directly to Playmaker, using an Ethernet cable.
> Connect the mains cable from Playmaker to the mains supply and switch on the product.
The network indicator flashes white for about 60 seconds and then becomes solid white.
> Enter the IP address '**http://169.254.11.22**' in the address bar of an internet browser, and press enter.
The setup page with network settings appears. If not, wait a while and refresh the page.

> Click on the drop-down list for Network name (SSID) and choose the desired network.
! If necessary, press the **Refresh list...** to perform a new network scan.
! If the SSID is hidden, click **SHOW ADVANCED SETTINGS**, checkmark **MANUAL SETTINGS** and type in the SSID.
> Press the **Password** field to enter the passphrase for the wireless network.
> Press the **APPLY CHANGES** button to save settings*.

Manual configuration

Static IP address (DHCP disabled) ...

If the router is configured with DHCP disabled, the Playmaker must be set up with a static IP address.

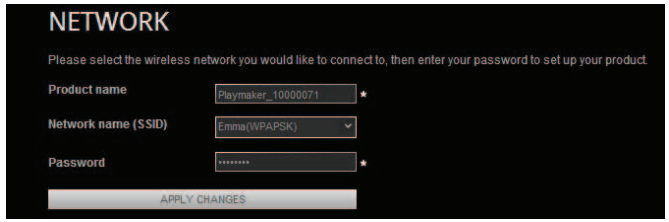
> Choose **SHOW ADVANCED SETTINGS** to open the section for manual IP settings (illustrated to the right).
> Remove the checkmark for **Use DHCP** (the fields for manual IP settings becomes active).
> Fill in the fields for IP settings (marked with ***) according to the router configuration.
> If a proxy server is needed, checkmark **Use proxy server** and fill in the required fields *.
> Press the **APPLY CHANGES** button to save settings*.

* The Playmaker reboots after the **APPLY CHANGES** button is pressed. Allow up to two minutes for Playmaker to connect to the network.

Final setup

Name the Playmaker

In order to optimize easy identification of Playmaker in the network, especially if several products are connected in the network, it is recommended to rename the Playmaker.



> Choose the **NETWORK** tab to go to the settings menu.
> Select the field for **Product name** and rename the product of your choice.
E.g. Playmaker_Living Room
> Press the **APPLY CHANGES** button to save settings.

Software update

It is important that the Playmaker has the latest software to ensure best possible performance. Software update requires Internet connection and that the product is wire connected to the network router or switch. Follow the procedure below to check for updates:

> Choose the **UPDATE PRODUCT SOFTWARE** menu from the setup page.
> Read the **CAUTION** section before proceeding the update.
> When ready, press the **YES** button to start the update.

During the software update process, the Playmaker mute indicator will flash red. When the software update is finished, the product automatically restarts. The product is ready for use, when the network indicator becomes solid white.

Option programming (optional)

The Option programming tells the product how to react on IR-commands from the remote control. The following options are available:

Option: **0** - IR receiver is switched off (no reaction on IR-commands).
4 - Playmaker placed in the same room as other Bang & Olufsen products. Remote commands must be prefixed with **LINK** (e.g. **LINK + A.MEM**).
5 - The product responds directly to its own codes (**A.MEM** or **A.AUX**).

> Press ● + LIST to open the configuration menu.
> Press LIST until **OPTION?** is shown in the display and press **GO/CENTRE**.
> Press LIST until **A.OPT** is shown in the display and press the desired digit (option **0/4/5**).

Output level settings (optional)

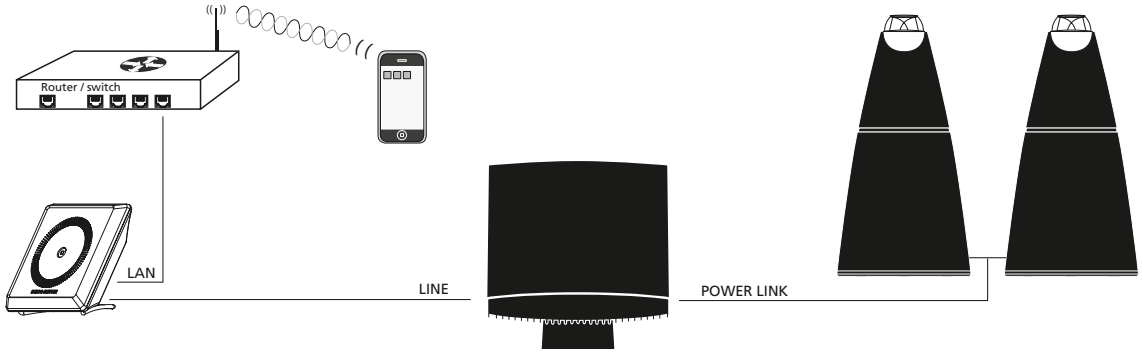
It is possible to determine the output level for Playmaker, four **maximum** volume levels and a **fixed** volume level.

Maximum volume level

The volume range goes from 00-90 in steps of 2 (not visible to the user). There are four maximum levels, **55** / **70** / **78** (default) and **90** (only recommended to be used for large speakers, e.g. BeoLab 5). To set the maximum volume level, follow the procedure below:

Fixed volume level

It is possible to set the volume for Playmaker to a fixed level (vol. 78). Use this setting when Playmaker is connected as source to an audiomaster (see below).



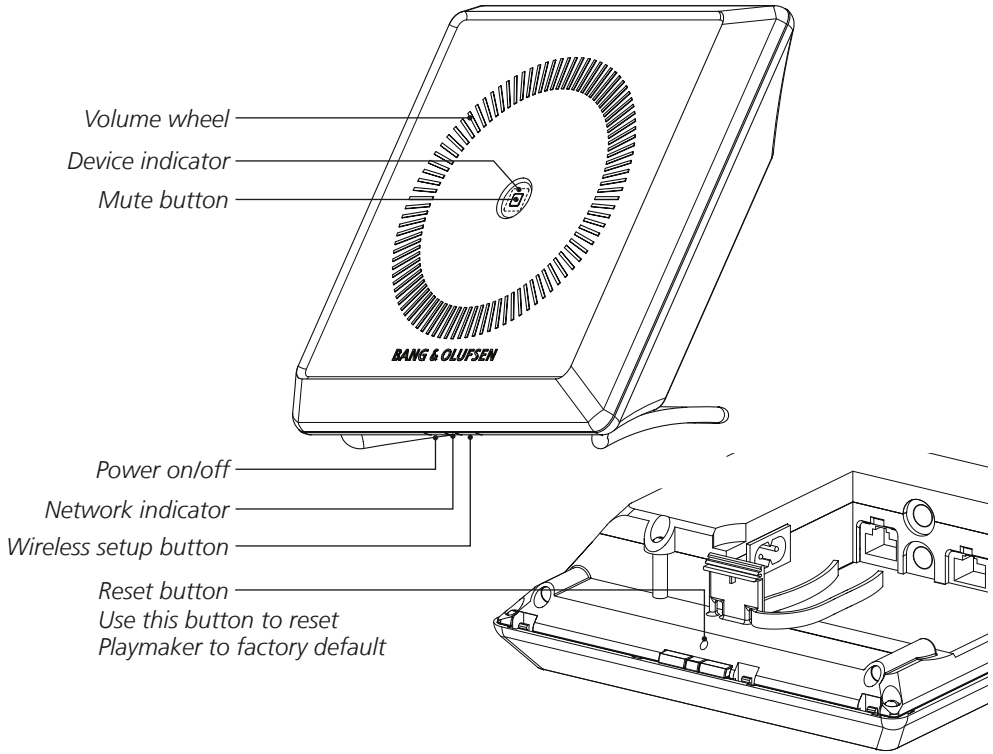
Procedure (Beo4)

> Find **A.SETUP** in the List and press **GO/CENTRE**.
> Press LIST until **S.STORE** is show in the display, and choose one of the following settings, by pressing digits:
no digit = max vol. 78
5 = max vol. 55
7 = max vol. 70
9 = max vol. 90
0 = fixed output level (equal to 78)
> Press **GO** to store settings.

The Playmaker will now turn on the green device LED for 1 second as a confirmation that the new setting has been stored.

Appendix

Survey of indicators / buttons



Device indicator

Green for a short time	IR command received confirmation
Green	The audio output has been muted
Red	The product is shutting down
Red Flashing	Software update in progress

Network indicator

White Flashing	Product is booting
White	Product is ready for use
Orange	Network signal strength weak
Orange Flashing	Network not connected
Green Flashing	Quick network setup mode (WPS)

The path to locate Playmaker from a PC/MAC:

Windows XP ...

> Right-click on **Start** and choose **Explore** -> choose **My Network Places** (in **Folders** section) and double-click on ***Playmaker_xxxxxxxx*** ('x' = serial number)

Windows 7 ...

> Right-click on **Start** and choose **Open Windows Explorer** -> choose **Network** (in **Folders** section) and double-click on ***Playmaker_xxxxxxxx*** ('x' = serial number)

Windows Vista ...

> Right-click on **Start** and choose **Explore** -> choose **Network** (in **Folders** section) and double-click on ***Playmaker_xxxxxxxx*** ('x' = serial number)

Apple Safari ...

> Open the Apple Safari browser -> Click the bookmark icon on the left side of the browser -> Click **Bonjour** and click on ***Playmaker_xxxxxxxx*** ('x' = serial number)

Troubleshooting

Router setup - port forwarding

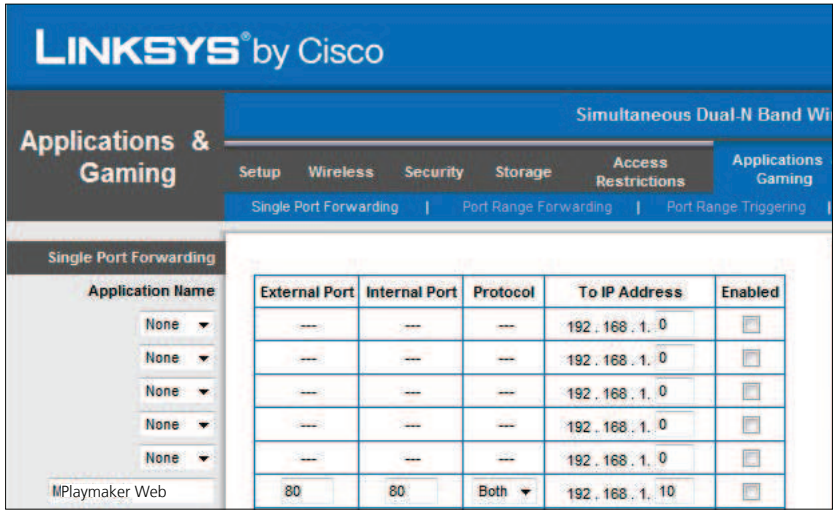
If it is not possible to connect to Playmaker, the solution can be port forwarding. To ensure that users can access Playmaker from a web panel, the network router can be configured to allow data traffic from specific ports. In the most common routers this feature is called **port forwarding**.

The ports used for web panel access and mobile devices are:

	Application:	**Port range**:
-	Playmaker Web panel	80

To define the port forwarding rules in the network router follow the procedure below.

> Open a web browser and enter the IP address of the network router.
> Choose the user name and type in the password to login.
> Go to the port forwarding section (typically named **Applications & Gaming**).
> Type in the previously stated port settings (see example here).
> Save settings and leave the router setup.



! *Note that the setup layout and names of menus in the customers router may vary between types/brands of network routers, compared to the shown example.*

How to reset Playmaker (factory default)

If incorrect network settings has been applied unintentionally, the Playmaker can be reset to factory default. Note that Playmaker must set up again after a factory reset. Before performing the factory reset, the network indicator must be solid white or orange.

> Insert a small pin, such as a straightened paper clip in the reset button hole (*see appendix*) for minimum five seconds.
> The network indicator and the Mute/standby button become solid orange for five seconds.
> The product restarts automatically and is reset to default settings.

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